APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

A Process for the Preparation of Linear Polymers of Aromatic Vinylic Hydrocarbons, and Products Obtained by the Process, by Guilio Natta, Dario Sianesi, 2 pp.

ITALIAN, Patent Appl, 4501, 25 Mar 1958.

CIA/FDD XX-[redacted]803
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Mar 60

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Kinetic Presentation of the Study of the Formation of Stereoblock Polymers, by Giulio Natta, 13 p.

ITALIAN, per, Accad Nazionale dei Lincei, Classe Sci Fis Mat Nat Rend 1958, Vol XXIV, No 3, pp 246-253.

SLA 60-10044 112, 091

Sci
Apr 60 Vol III, No 3

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Kinetic Treatment of the Formation of Stereoblock Polymers, by Giulio Natta, 15 pp.

ITALIAN, Per, Accad Lincei. Classe Sci Fiz Mat Nat,Rend, 1958, Vol XXIV, No 3, pp 246-255.

BLA 59-10809

Sci
Oct 59
Vol 2, No 3

99,892

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Isophase Transitions of Polymers of α-Olefines of the Normal Aliphatic Series, by Giulio Natta, Ferdinando Danusso, Giovanni Moraglio, 11 pp.

ITALIAN, per, Accademia Nazionale dei Lincei. Classe di Scienze Fisiche Matematiche e Naturali Rendiconti, Vol XXIV, mer 8, 1958, pp 254-260.

SLA 59-15001

Sci - Chemistry
Nov 59

103,285

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, Giulio, Farina, Mario, and Peraldo, Mario.
POLYMERS HAVING A DOUBLY ISOTACTIC STRUCTURE. [Nov 63] 1800 words 5refs
Order from CTS(Chem) $7.20 CTS(Chem)-348
subsequent copies $1.20/ea.
Trans. of [Accademia Nazionale dei] Lincei. [Classe di] Sc[ienze] Fis[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1958 [ser. 8] v. 25, p. 424-430.

DESCRIPTORS: *Polyethylene plastics, *Propenes, Polymerization, Ziegler catalysts, *Stereochemistry, Molecular structure.

(Materials--Plastics, TT, v. 11, no. 5)

TT-64-12044

I. Natta, G.
II. Farina, M.
III. Peraldo, M.
IV. CTS(Chem)-348
V. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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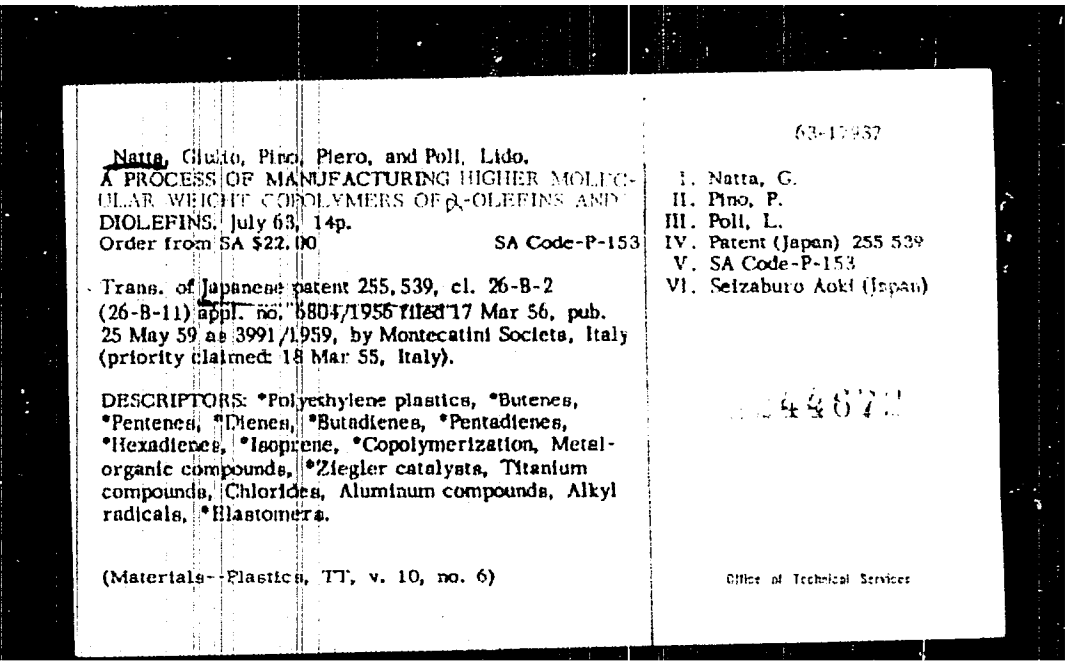

Natta, Giulio, Pino, Piero, and Poli, Lido.
A PROCESS OF MANUFACTURING HIGHER MOLECULAR WEIGHT COPOLYMERS OF α-OLEFINS AND DIOLEFINS. July 63, 14p.
Order from SA $22.00 SA Code-P-153

Trans. of Japanese patent 255,539, cl. 26-B-2 (26-B-11) appl. no. 6804/1956 filed 17 Mar 56, pub. 25 May 59 as 3991/1959, by Montecatini Societa, Italy (priority claimed: 18 Mar 55, Italy).

DESCRIPTORS: *Polyethylene plastics, *Butenes, *Pentenes, *Dienes, *Butadienes, *Pentadienes, *Hexadienes, *Isoprene, *Copolymerization, Metal-organic compounds, *Ziegler catalysts, Titanium compounds, Chlorides, Aluminum compounds, Alkyl radicals, *Elastomers.

(Materials--Plastics, TT, v. 10, no. 6)

63-17937

I. Natta, G.
II. Pino, P.
III. Poli, L.
IV. Patent (Japan) 255 539
V. SA Code-P-153
VI. Seizaburo Aoki (Japan)

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, Giulio, Giuffre, Luigi, and Pasquon, Italo. DETERMINATION OF METALS BOUND TO ISOTACTIC POLYPROPYLENE CHAINS. 7 June 60, 12p. 9 refs.
Order from SLA $1.60 61-16791

Trans. of Accad[emia] Naz[ionale dei] Lincei. [Classe di Scienze Fiziche, Matematiche e Naturali. Rendiconti] (Italy) 1958 [ser. 8] v. 25, no. 6, p. 417-423.

DESCRIPTORS: *Propenes, Polymers, *Metals, Determination, Polymerization, Molecular weight.

In the polymerization of isotactic polymeric propylene, with the $Al(C_2H_5)_3$ -α-$TiCl_3$ catalytic system, the chain transfer process, the rate of which is a function of the square root of the concentration of alkylaluminum, introduces $-C_2H_5$ terminal groups into the polymeric chains which remain, for the most part, bound to aluminum. With the variation of the concentration of alkylaluminum, a variation in the number of $-C_2H_5$
(Chemistry--Organic, TT, v. 6, no. 5) (over)

61-16791

I. Title: Isotactic polymers
I. Natta, G.
II. Giuffre, L.
III. Pasquon, I.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Chromatographic Fractionation of Stereoblock Polymers, by Guilio Natta, Mario Pegoraro, Mario Peraldo, 12 p.

ITALIAN, per, la Ricerca Scientifica [ed il Progresso Technica nell'Economia Nazionale, 1958, Vol XXVIII, July pp 1473-1479.

SLA 59-17059

105469

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Jan 60
Vol 2, No 8

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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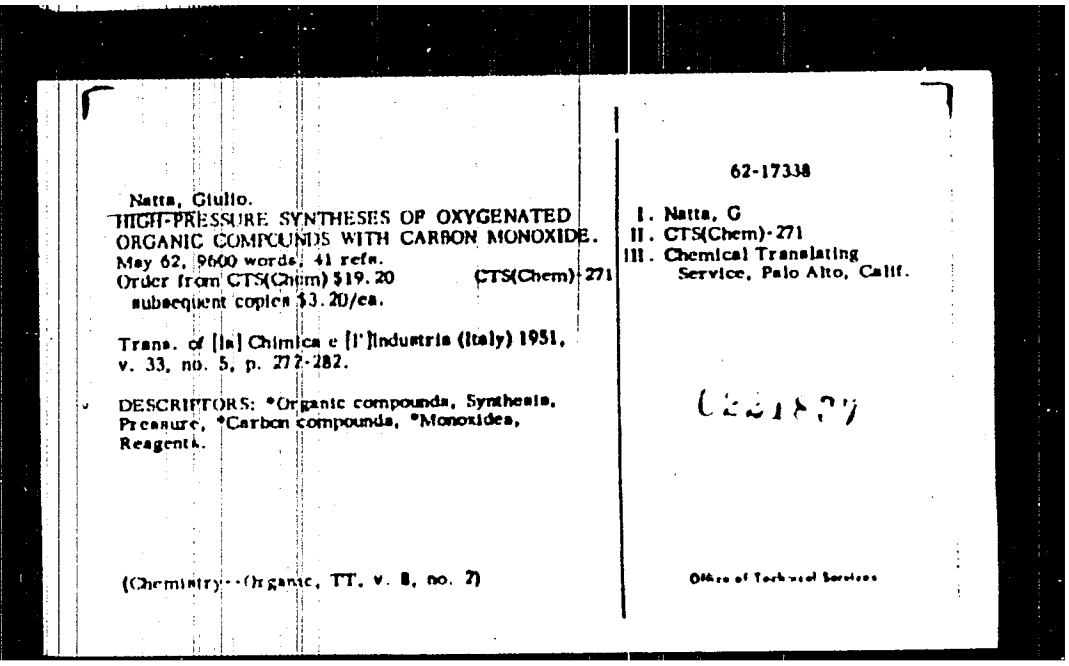

Natta, Giulio.
HIGH-PRESSURE SYNTHESES OF OXYGENATED ORGANIC COMPOUNDS WITH CARBON MONOXIDE.
May 62, 9600 words, 41 refs.
Order from CTS(Chem) $19.20 (CTS(Chem)-271
subsequent copies $3.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1951, v. 33, no. 5, p. 272-282.

DESCRIPTORS: *Organic compounds, Synthesis, Pressure, *Carbon compounds, *Monoxides, Reagents.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17338

I. Natta, G
II. CTS(Chem)-271
III. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, Giulio, Pino, Piero and others.
SYNTHESES AND PROPERTIES OF CRYSTALLINE HIGH POLYMERS OF SOME ALPHA-OLEFINS WITH A BRANCHED CHAIN. [1960] 10p. 9 refs.
Order from SLA mi$1.80, ph$1.80 60-18499

Trans. of Accad[emia] Naz[ionale dei] Lincei. Classe [di] Sci[enze] Fiz[iche] Mat[ematiche] e Nat[urali]. Rend[iconti] (Italy) 1955, v. 19, p. 397-403.

(Chemistry--Organic, TT, v. 5, no. 3)

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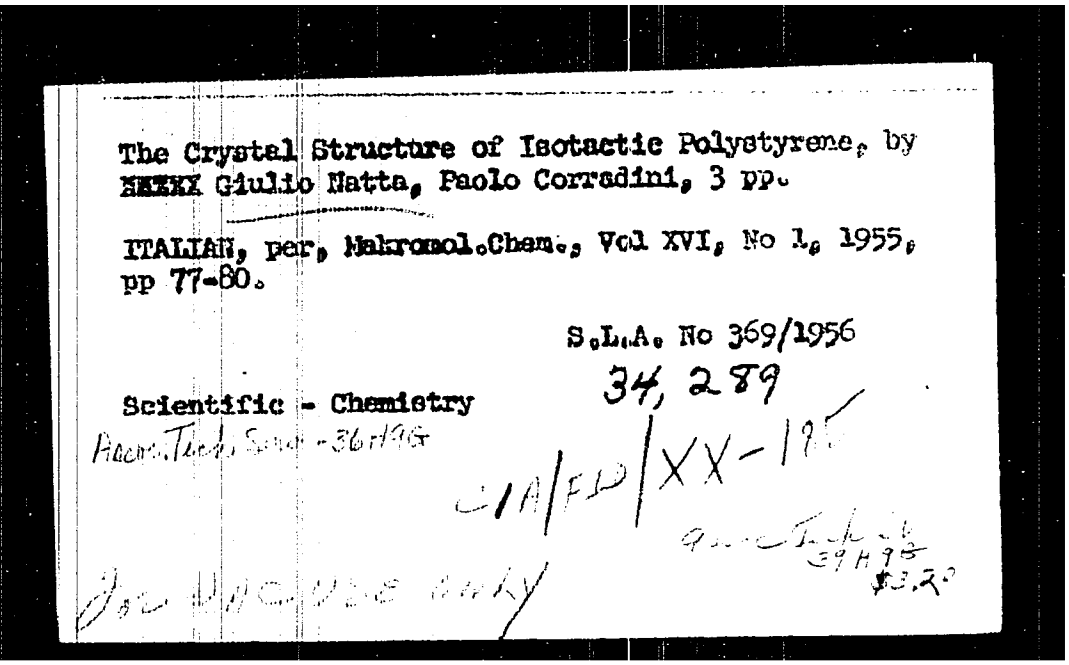
60-18499

1. Propenes--Synthesis
I. Natta, G.
II. Pino, P.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7



The Crystal Structure of Isotactic Polystyrene, by ~~XXXX~~ Giulio Natta, Paolo Corradini, 3 pp.

ITALIAN, per, Makromol.Chem., Vol XVI, No 1, 1955, pp 77-80.

S.L.A. No 369/1956

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Scientific - Chemistry

Acces. Tech. Serv. - 36 Feb 56

CIA/FD/XX-195

Gen. Tech. Lib. 39 Feb 56 $3.50

Jor UNCLASS only

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Propylene Polymers of High Molecular Weight and Procedure for their Preparation, by Giulio Natta, 13 p.

ITALIAN, patent 535,712, CL. XXIV, introduced 8 June 54, approved 17 Nov 55,

SLA 60-10091

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Apr 60
Vol XXI, No 2

111, 653

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Crystalline Structure of Isotactic Polypropylene,
by Giulio Natta, Paolo Corradini, Marco Cesari,
10 p.

ITALIAN, per, Accad Nazionale Lincei, Classe di Sdi
Fi Mat e Nat Rend, 1956, Vol XXI, No 5, pp 365-372.

SLA 59-15931

Sci
Jan 60
Vol 2, No 6

103 745

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Stereospecific Catalyses and Isotactic Polymers, by G. Natta, 47pp
GERMAN, per, Angewandte Chemie, Vol 68, 1956, No 12, pp 393-403
SLA TT-64-30814

G Natta

Sci - Chem
June 67 328,949

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Catalysis and Stereospecific Polymerization,
by Giulio Natta, 20pp
FRENCH, per. Nucleus, Vol 4, 1963, No 2,
pp 97-108
SLA TT-64-18133

Giulio Natta

Sci - Chem
June 67 328,950

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Production of Crystalline Polyolfins in Absence of Solvents, by Giullio Natta, Piero Pino, Giorgio Mazzanti, Ilpo BELGIAN, patent 551,276, by Montecatini Societa Generale per l'Industria Mineraria e Chimica Milan and Karl Ziegler, Filed 25 Sep 56, appl 13,629, RIS-96779

Giulio Natta

Sci - Chem
June 67

328,951

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

New Catalysts of Higher Activity for Olefin Polymerization, by Natta, Giulio, Danusso, Ferdinando, Bianessi, Dario, 18 pp.

ITALIAN, Belgian patent 563,350, 19 Dec 57, by Montecatini Societa Generale per l'Industria Mineraria e Chimica, Milan, and Karl Ziegler, Mulheim. Priority: Italian patent application 18 646, filed 20 Dec 56 by Montecatini.

RIB rpt 96955

Sci - Chem
CMB I, 12
Jul 59

92, 329

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Mesomorphic Smectic Modification of Isotactic Polypropylene, by Giulio Natta, Mario Peraldo, Paolo Corradini, 7 p.

ITALIAN, per, Acc Lincei Rend, 1959, Vol XXVI, No 1, pp 14-17

SLA 59-17937

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Vol 2, No 12

109,262

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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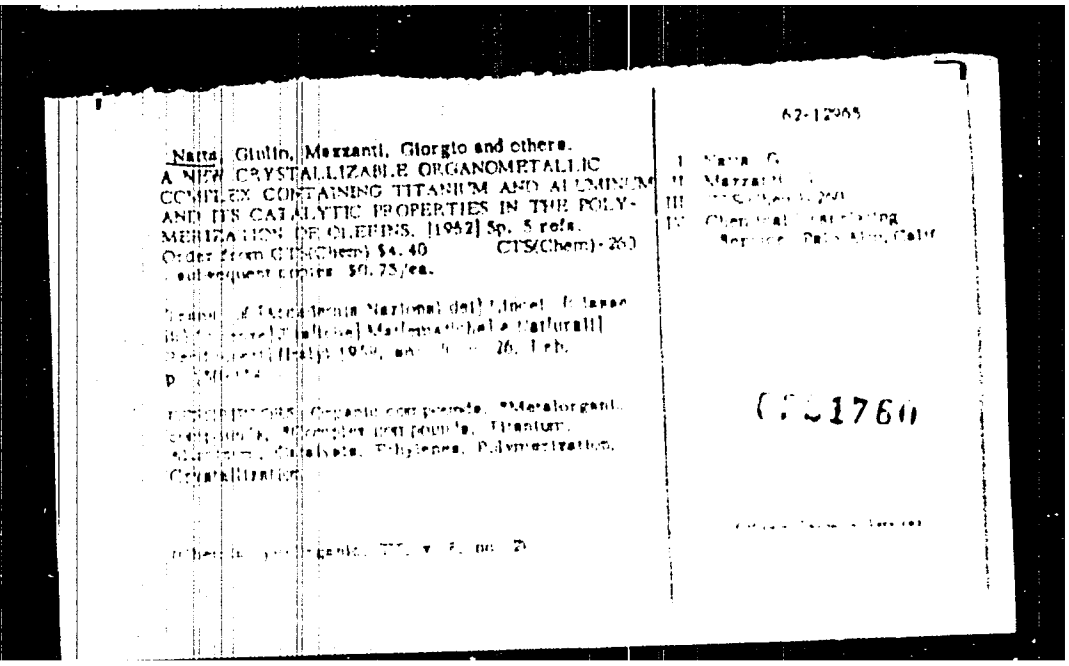

62-12965

Natta, Giulio, Mazzanti, Giorgio and others.
A NEW CRYSTALLIZABLE ORGANOMETALLIC COMPLEX CONTAINING TITANIUM AND ALUMINUM AND ITS CATALYTIC PROPERTIES IN THE POLYMERIZATION OF OLEFINS. [1962] 5p. 5 refs.
Order from CTS(Chem) $4.40 CTS(Chem)-263
subsequent copies $0.75/ea.

[illegible] Accademia Nazionale dei Lincei. Rendiconti. Classe di scienze fisiche, matematiche e naturali. [illegible] (Italy) 1959, [illegible] 26, Feb.

[illegible] Organic compounds, *Metalorganic compounds, *Complex metal compounds, Titanium, Aluminum, Catalysts, Ethylenes, Polymerization, Crystallization

[illegible]

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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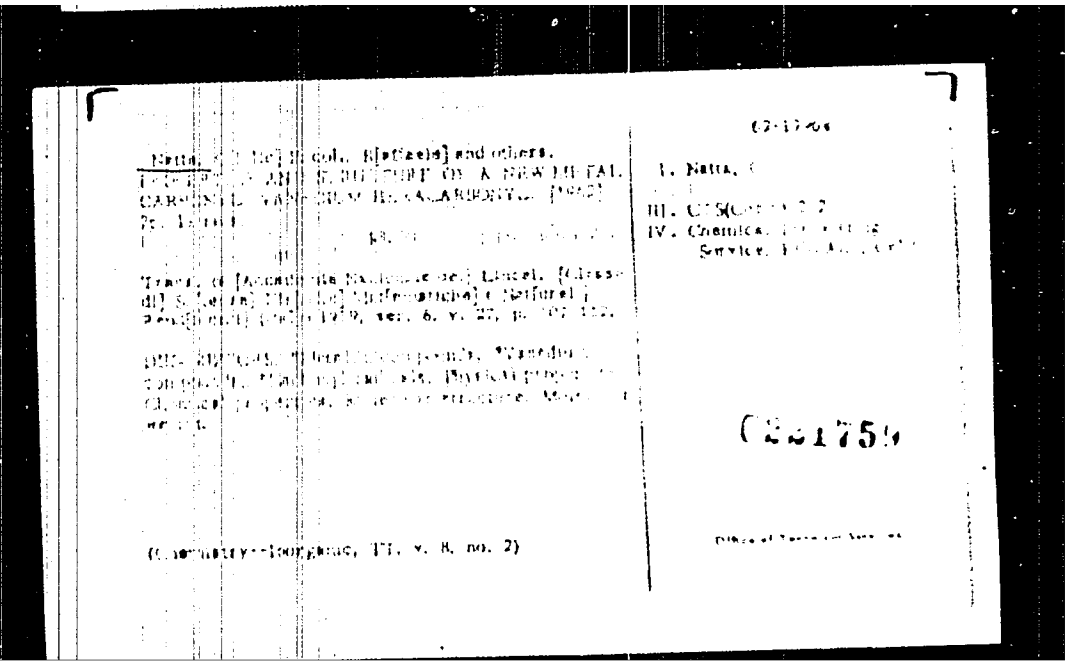

Natta, G. [illegible] and others.
[illegible] A NEW METHOD OF A NEW METAL.
[illegible]

(Chimica e Industria, IT, v. 8, no. 2)

I. Natta, G.
III. [illegible]
IV. Chemical [illegible] Service, [illegible]

C22175

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

61-20959

Natta, G., Pino, P., and Farina, M.
KINETICS OF POLYMERIZATION OF ETHYLENE CATALYZED BY ALKYL ALUMINUM COMPOUNDS (Cinetica della Polimerizzazione dell'Etilene Catalizzata da Composti Alluminio Alchilici). [1961] 12p. (3 figs. omitted) 4 refs.
Order from SLA $1.60 61-20959

Trans. from mono. Symposium on Macromolecular Chemistry [held at] Milan, 27 Sep 54.

DESCRIPTORS: *Ethylenes, *Polymerization, *Reaction kinetics, *Catalysts, *Alkyl radicals, *Aluminum compounds, Molecular weight.

(Chemistry--Organic, TT, v. 7, no. 7)

I. Natta, G.
II. Pino, P.
III. Farina, M.

ATS 5[illegible]

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, G., Pasquon, I., and Giachetti, E.
KINETICS OF THE STEREOSPECIFIC POLYMERIZATION OF PROPYLENE TO ISOTACTIC POLYMERS. [1961] [16]p. 34 refs. /Z Pgs/
Order from SLA $1.60 61-20651

Trans. of Angew[andte] Chem[ie] (West Germany) 1957, v. 69, no. 7, p. 213-219.
Another trans. is available from SLA mi$2.40, ph$3.30 as 59-15929 [1959] 15p.

DESCRIPTORS: *Propenes, Polymerization, *Polymers, Stereochemistry, Titanium compounds, Chlorides, Aluminum, Ethyl radicals, Catalysts, Catalysis.

For abstract see Technical Translations 2: 482, 1959.

(Chemistry--Organic, TT, v. 6, no. 12)

61-20651

I. Natta, G.
II. Pasquon, I.
III. Giachetti, E.

SLA-3225

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

-Properties, Constitution, and Analysis of Ternary Mixtures, Water-Methanol-Formaldehyde, by G. Natta, M. Baccaredda, 16 pp.

ITALIAN, per, Giorn Chem Ind Appl, Vol XV, No 6, 1933, pp 273-281.

Assoc Tech Serv 87H11I

Jul 58

69, 988

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Examination of Some Vinyl Polymers With Electron Rays, by G. Natta, R. Rigamonti, 12 pp.

ITALIAN, Per, Accad Lincei. Classe Sci Fis Mat Nat, 1936, Vol XXIV, pp 581-588.

SLA 59-10813

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Oct 59
Vol 2, No 3

99,891

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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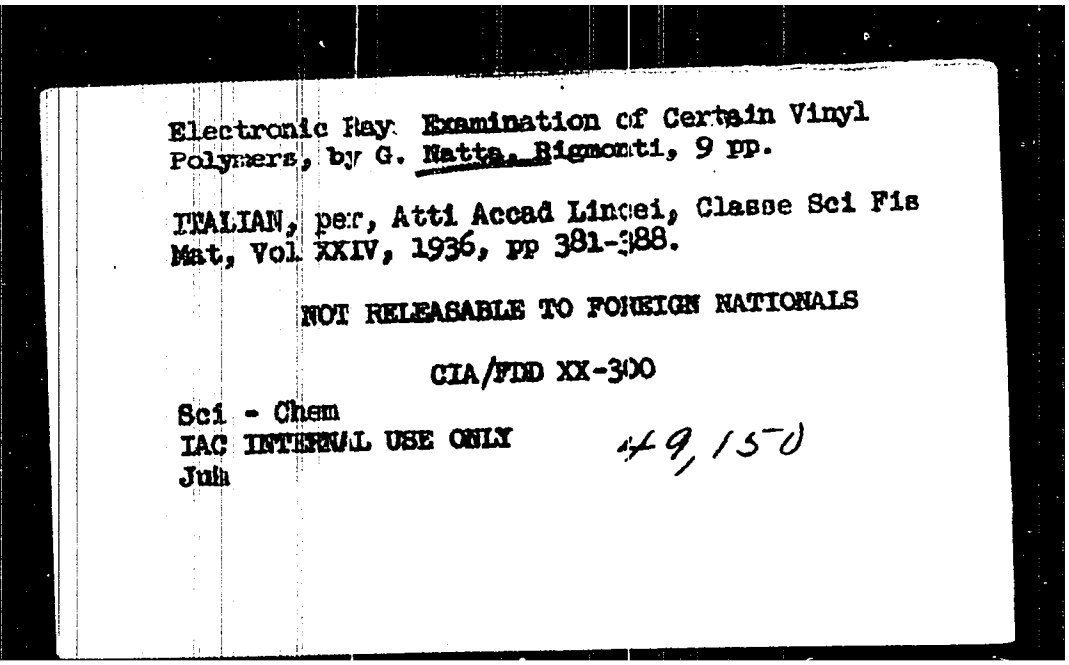

Electronic Ray Examination of Certain Vinyl Polymers, by G. Natta, Bigmonti, 9 pp.

ITALIAN, per, Atti Accad Lincei, Classe Sci Fis Mat, Vol XXIV, 1936, pp 381-388.

NOT RELEASABLE TO FOREIGN NATIONALS

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Sci - Chem
IAC INTERNAL USE ONLY 49,150
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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, G.
HIGH-MELTING LINEAR POLYETHYLENES AND PROCESS FOR THEIR PRODUCTION. Jan 64.
Order from RIS $35.00 RIS-96839
Polyolefins Set $750.00

Trans. of Belgian patent 553 277, by Montecatini, Milan, Dec 56. (Abstract available)

DESCRIPTORS: *Heat-resistant plastics, *Polyethylene plastics, *Ethylenes, Polymerization, Metalorganic compounds, *Ziegler catalysts, Solvents,

A process for polymerizing ethylene with a solid catalyst obtained by contacting a solid, microcrystalline halogenated compound of a group IVB, VB or VIB metal in which the valency of the metal is below the maximum with an organometallic compound of a metal of group II or III in the presence of a solvent for ethylene in which the microcrystalline compound is insoluble, in order to
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12520

I. Natta, G.
II. Patent (Belgium) 553 276
III. RIS-96839
IV. Research Information Service, New York

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Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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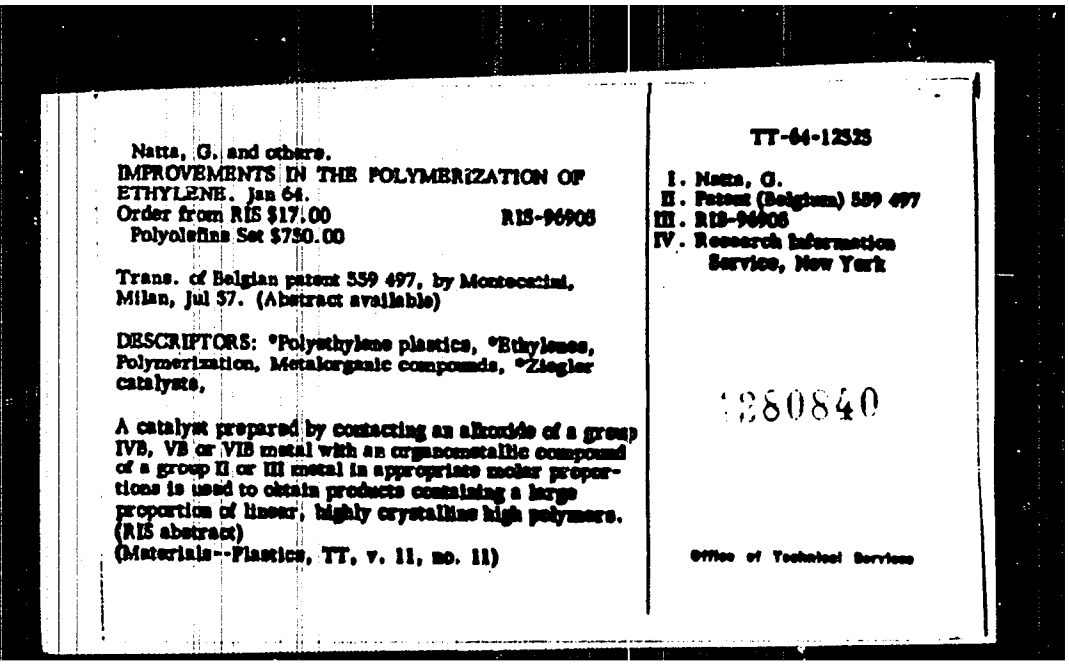

Natta, G. and others.
IMPROVEMENTS IN THE POLYMERIZATION OF ETHYLENE. Jan 64.
Order from RIS $17.00 RIS-96908
Polyolefins Set $750.00

Trans. of Belgian patent 559 497, by Montecatini, Milan, Jul 57. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Ethylenes, Polymerization, Metalorganic compounds, *Ziegler catalysts.

A catalyst prepared by connecting an alkoxide of a group IVB, VB or VIB metal with an organometallic compound of a group II or III metal in appropriate molar proportions is used to obtain products containing a large proportion of linear, highly crystalline high polymers. (RIS abstract)
(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12525

I. Natta, G.
II. Patent (Belgium) 559 497
III. RIS-96908
IV. Research Information Service, New York

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Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, G. and others.
ELASTOMERS OF EXCEPTIONALLY HIGH RESILIENCE FROM COPOLYMERS OF ETHYLENE WITH ALIPHATIC α-OLEFINS. Jan 64.
Order from RIS $54.00 RIS-96849
Polyolefins Set $750.00

Trans. of Belgian patent 556 902, by Montecatini, Milan, Apr 56. (Abstract available)

DESCRIPTORS: *Elastomers, *Polyethylene plastics, *Alkenes, *Ethylenes, Copolymerization, Vulcanization,

Chlorosulfonated copolymers of ethylene with aliphatic α-olefins such as propylene are vulcanized by heating in the presence of suitable acceptors for the acid components formed during vulcanization and yield homogeneous products with good mechanical and elastic properties. (RIS abstract)
(Materials--Elastomers, TT, v. 11, no. 11)

TT-64-12522

I. Natta, G.
II. Patent (Belgium) 556 902
III. RIS-96849
IV. Research Information Service, New York

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

The Hydrogenation of Furfural and its Derivatives, by G. Natta.

ITALIAN, per, Chim e Ind, Vol XXIII, 1941, pp 117-123.

INSDOC T 1748

Sci
Apr 59

84,455

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Comparison of Experimental Results and Thermodynamic Predictions on the Hydrogenation of Carbohydrates at Low Temperatures, by G. Natta, E. Beati, 14 pp.

ITALIAN, per, Ricerca Sci, Vol XXI, Jan 1943, pp 15-22.

S.L.A. Tr No 57-112

Sci - Chemistry
Apr 57

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Natta, G. and Pino, P.
A COMPARISON OF THE SYNTHESIS OF ESTERS FROM ACETYLENE AND ETHYLENE BY REACTION WITH CARBON MONOXIDE AND ALCOHOLS. Paper presented at the Congress of Industrial Chemistry (no. 23) Paris, Nov 51, [1962] [12]p. 8 refn.
Order from SLA $1.60 62-20049

Trans. of [la] Chimica e [l]Industrial (Italy) 1952, v. 34, p. 449-453.

DESCRIPTORS: *Esters, Synthesis (Chemistry), *Acetylenes, Alcohols, Methanol, Carbon compounds, Monoxides, Ethylenes, *Acrylic acid esters, *Fatty acid esters, Ketones

In continuation of their studies of the reaction between acetylene, carbon monoxide, and alcohols the authors compare the synthesis of esters and diesters from acetylene with the analogous synthesis of esters from (Chemistry--Organic, TT, v. 9, no. 12) (over)

62-20049

I. Natta, G.
II. Pino, P.
III. Title: Congress...

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Quantitative Determination of the Crystallinity of Polypropylene, by G. Natta, Corradini, M. Cesari, 13 pp.

ITALIAN, per, Atti Accad Naz Lincei Rend Classe Sci Mat e Nat, Vol XXII, No 8, pp 11-17, 1957.

SLA 3453

Sci - Chem
Aug 58

70,613

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

Kinetics of Propylene Polymerization with Ziegler Stereospecific Heterogeneous Catalysts. Part I. Overall Kinetics of Polymerization Process, by G. Natta, I. Pasquon, E. Giachetti, 20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XXXIX No 12, 1957, pp 993-1001.

SLA 59-15512
OTS 61-10177

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Kinetics of Propylene Polymerization with Highly Stereospecific Heterogeneous Catalysts. Part II. Nature of the Period of Increasing Polymerization Rate, by G. Natta, I. Pasquon, E. Giachetti, 21 pp.

ITALIAN, Per, La Chim e l'Industria, 1957. Vol XXXIX, No 12, pp 1002-1012.

SLA 59-15913
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Natta, G., Mazzanti, G. and others.
COPOLYMERIZATION OF ETHYLENE WITH ALIPHATIC ALPHA-OLEFINS. I. PRELIMINARY STUDIES OF ETHYLENE-PROPYLENE COPOLYMERIZATION (Copolimerizzazione dell'etilene con le α-Olefine Alifatiche. Nota I. Studi Preliminari della Copolimerizzazione dell'etilene conil Propilene) [1960] [45]p. 21 refs.
Order from SLA mi$3.30, ph$7.80 61-10476

Trans. of la Chimica e l'Industria (Italy) 1957, v. 39, no. 9, p. 735-743.

Ethylene-Propylene copolymers are produced by polymerization of mixtures of the olefins with catalysts made from aluminum tri-n-hexyl and vanadium oxychloride. The products are true copolymers with rubbery properties characteristic of an unvulcanized elastomer. Polymers are separated by a complicated fractionation scheme involving acetone, ether, hexane and heptane. Composition of the copolymer is deter-
(Chemistry--Organic, TT, v. 5, no. 6) (over)

61-10476

1. Copolymerization--Analysis
2. Ethylenes--Polymerization
I. Natta, G.
II. Mazzanti, G.
III. Title: Preliminary...

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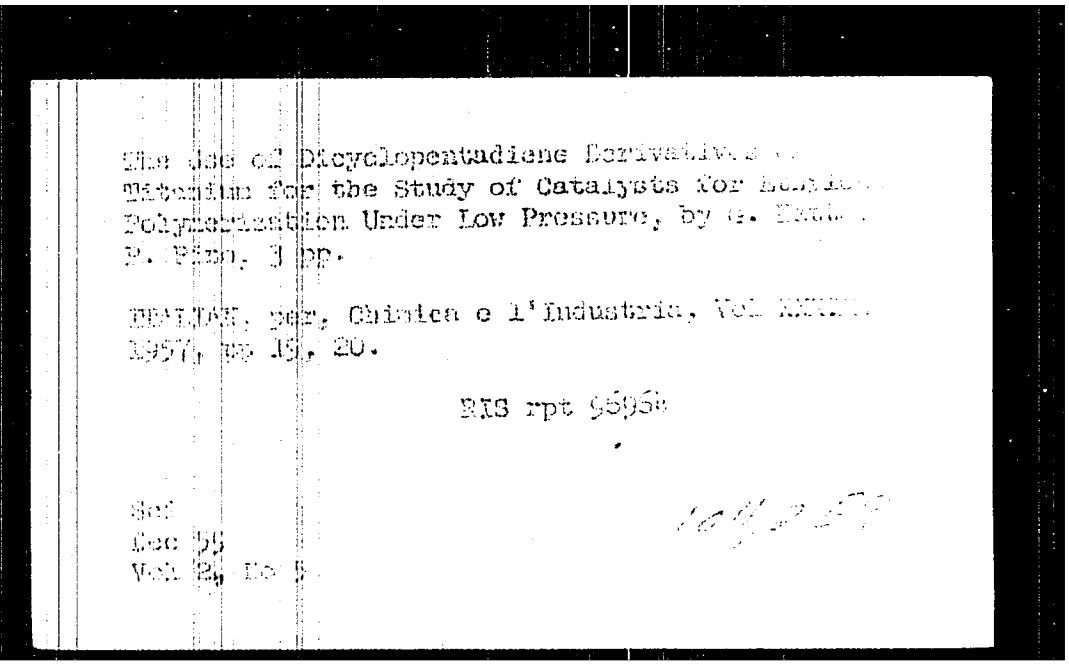

The Use of Dicyclopentadiene Derivatives ...
...thodics for the Study of Catalysts for Low...
Polymerization Under Low Pressure, by G. Natta ...
P. Pino, 3 pp.

RENDAN, per, Chimica e l'Industria, Vol XXXV...
1957, pp 19, 20.

RIS rpt 95956

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APPROVED FOR RELEASE: Tuesday, July 09, 2002 CIA-RDP91-00772R000100700021-7

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Stereospecific Catalysts and Stereospecific Polymers
Synthesis of New Fibers, Plastics, and Elastomers,
by G. Natta, 29 pp.

ITALIAN, lecture, Meeting of Sixteenth International
Congress of Pure and Applied Chemistry, 1957, Paris.

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IAC INTERNAL USE ONLY 73, 941

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Isotactic and Stereoblock Polymers of Proplene, by G. Natta, G. Mazzanti, G. Crespi, G. Moraglio, 28 pp.

ITALIAN, per, Chimica e Industria, Vol XXXIX, No 4, pp 275-283, 1957.

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Kinetics of Chain Growth and Termination Processes in Stereospecific Polymerization of Polypropylene, by G. Natta, I. Pasquon, E. Giachetti, 19 pp.

GERMAN, per, Makromol Chem, Vol XXIV, No 3, Oct 1957, pp 258-280

SLA 57-3574

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Natta, G., Crespi, G. and others.
NEW TERPOLYMERS BASED ON ETHYLENE AND PROPYLENE. [1963] 15p. 7 refs.
Order from CTS(Chem) $13.20 CTS(Chem)-341
subsequent copies $2.20/ea.

Trans. of [Ia] Chimica e [I']Industria (Italy) 1963, v. 45, no. 6, p. 651-656.

DESCRIPTORS: *Elastomers, *Polyethylene plastics, *Ethylenes, *Propenes, *Dienes, Copolymerization, Ziegler catalysts, Physical properties, *Vulcanization, Fillers, Oils, Aging.

(Materials--Elastomers, TT, v. 10, no. 9)

63-17992

1. Title: 1,5-Cyclo-octadiene
I. Natta, G.
II. Crespi, G.
III. CTS(Chem)-341
IV. Chemical Translating Service, Palo Alto, Calif.

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Natta, G., Ercoli, R., and Calderazzo, F.
SYNTHESIS OF AROMATIC-CHROMIUM-TRICARBONYL COMPOUNDS [Sintesi di Arene-Cromo-Tricarbonili]. [1961] 9p. 5 refs.
Order from SLA ml$1.80, ph$1.80 61-10700
SLA TT-65-14053 SLA TT-64-30993
Trans. of la Chimica e l'Industria (Italy) [1958]
v. 40, no. 4, p. 287-289.

The method for the synthesis is based on the reaction between aromatic compounds and chromium hexacarbonyl according to the equation

$$Ar + Cr(CO)_6 \longrightarrow ArCr(CO)_3 + 3CO.$$

In this manner aromatic-chromium-tricarbonyl compounds were prepared containing benzene, toluene, o-, m-, p-xylene, symmetrical trimethylbenzene, tetrahydronaphthalene, chlorobenzene, anisole, benzyl alcohol and methylbenzoate. The compounds, which contain aromatic nuclei linked to the chromium with π bonds, are crystalline yellow solids, sublimable at 60° to 100°C under a vacuum of 10^{-2} mm Hg, and are monomeric by cryoscopy in benzene.

61-10700

1. Chromium carbonyls--Synthesis
I. Natta, G.
II. Ercoli, R.
III. Calderazzo, F.

Office of Technical Services
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Kinetics of the Polymerization of Propylene by Means of Heterogeneous Catalysts With High Stereo-Specificity. VI. Kinetic Determination of Active Centers, by G. Natta, et al.

ITALIAN, per, Chem e ind, Vol XL, No 7, 1958, pp 556-560.

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Stereospecific Polymerizations of Conjugated Diolefins, Note IV. Preparation of Syndiotactic 1, 2-Polybutadiene, by G. Natta, L. Porri, 18 p.

ITALIAN, per, Chimica e l'Industria 1959, Vol XLI, No 6, pp 526-533.

SLA TT-64-30656

SLA 60-10487

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Elastic and Inelastic Behavior of Some Isotactic Polymers, by G. Natta.

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SLA 77-65-10186

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The Copolymerisation of Ethylene With the Aliphatic Alpha Olefins, Note VI. Copolymerization of Ethylene With Butene-1, by G. Natta, G. Mazzanti, et al, 34 pp.

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ITALIAN, per, la Chimica e l'Industria, Vol XLI, No 8, 1959, pp 764-775.

SLA-65-10182

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Stereospecific Polymerization of Vinyl-Aromatic Monomers. III. Vinyl Derivatives of Polynuclear Aromatic Hydrocarbons, by G. Natta. F. Danusso, A [illegible]

ITALIAN, per, La Chimica e l'Industria, Vol XLI, No 10, 1959, pp 964-967.

SLA 60-18097

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Natta, G. and Rigamonti, R.
ELECTRONIC RAY EXAMINATION OF SOME VINYL POLYMERS [Esame coi Raggi di Elettroni di Alcuni Polymeri Vinilica]. [1963] 8p. (figs. omitted) 6 refs.
Order from SLA $1.10 63-14122

Trans. of [Accademia Nazionale dei Lincei. Classe di Scienze Fisiche, Matematiche e Naturali]. Rendiconti (Italy) 1936 [ser. 6] v. 24, p. 381-388. Another trans. is available from SLA mi$1.80, ph$1.80 as 61-10453 [1960] [10]p.

DESCRIPTORS: *Vinyl radicals, Polymers, *Vinyl plastics, Molecular electronics, Electron beams.

An examination is made of the interferences produced in electron rays by thin laminae (thickness 10^{-5} cm) of some linear vinyl polymers: polyvinyl bromide, (Materials--Plastics, TT, v. 10, no. 3) (over)

62-14122

I. Natta, G.
II. Rigamonti, R.

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Elastomers From Chlorosulfonylated Polymers and Copolymers of Alpha-Olefins, by G. Natta, G. Crespi, M. Bruzzone, 13 pp.

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Natta, G., Giachetti, E. and others.
CONTROL OF THE MOLECULAR WEIGHT OF ISOTACTIC POLYPROPYLENE BY MEANS OF ZINC ALKYLS. [1960] 6000 words 20 refs.
Order from CTS(Chem) $24.00 CTS(Chem)-178
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Trans. of [Ia] Chimica e Industria (Italy) 1960, v. 42, no. 10, p. 1091-1099.

(Chemistry--Organic, TT, v. 5, no. 3)

61-12141

1. Propene polymers--Molecular weight
2. Zinc compounds (Organic)--Chemical reactions
I. Natta, G.
II. Giachetti, E.
III. CTS(Chem)-178
IV. Chemical Translating Service, Palo Alto, Calif.

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By G. Natta and I. Pasquon, pp. 23

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Stress in Perlon Filament in Cold-Drawing, by
D. Hatun,

GERMAN, per, Faserforsch und Textiltechnik, Vol V,
No 10, 1957, pp 431-434.

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Stress in Perlon Filament ~~KX~~ in Cold-Drawing, by D. Natus, H. Bauer, H. Wenderoth, 6 pp.

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The Influence of Various Spinning Conditions on Drawing, by D. Natus, H. Sauer,

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The Metal Chemistry of Vanadium, I. I. Kornilov
by N. M. Matveyeva

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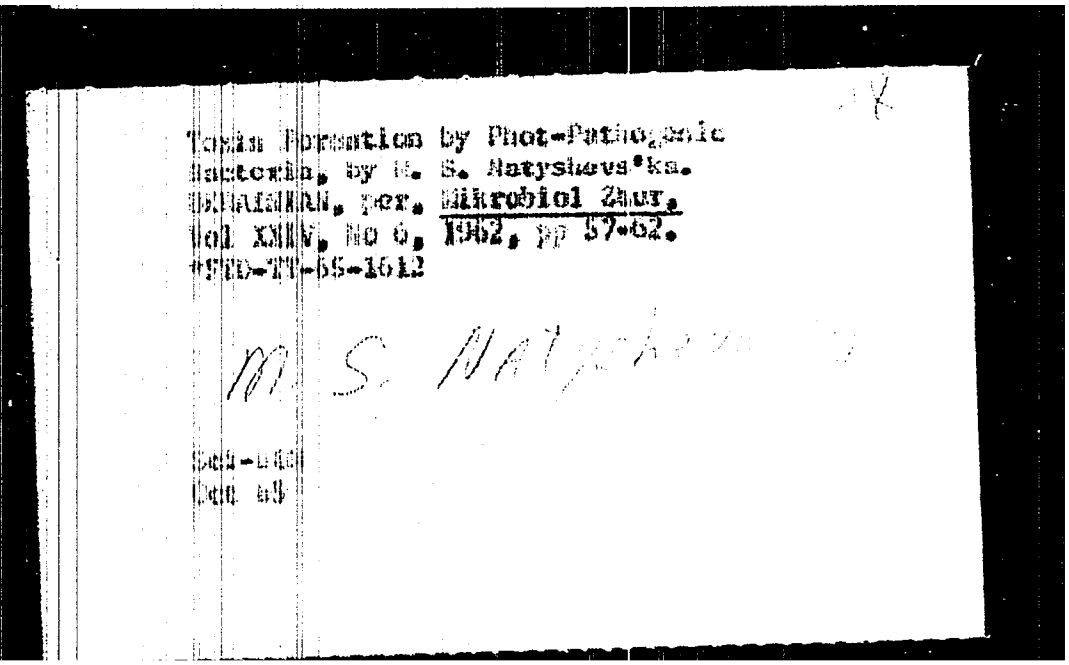

Toxin Formation by Phot-Patho,enic
Bacteria, by M. S. Matyshevs'ka.
Mikrobiol Zhur,
Vol XXIV, No 6, 1962, pp 57-62.

M. S. Matyshevs'ka

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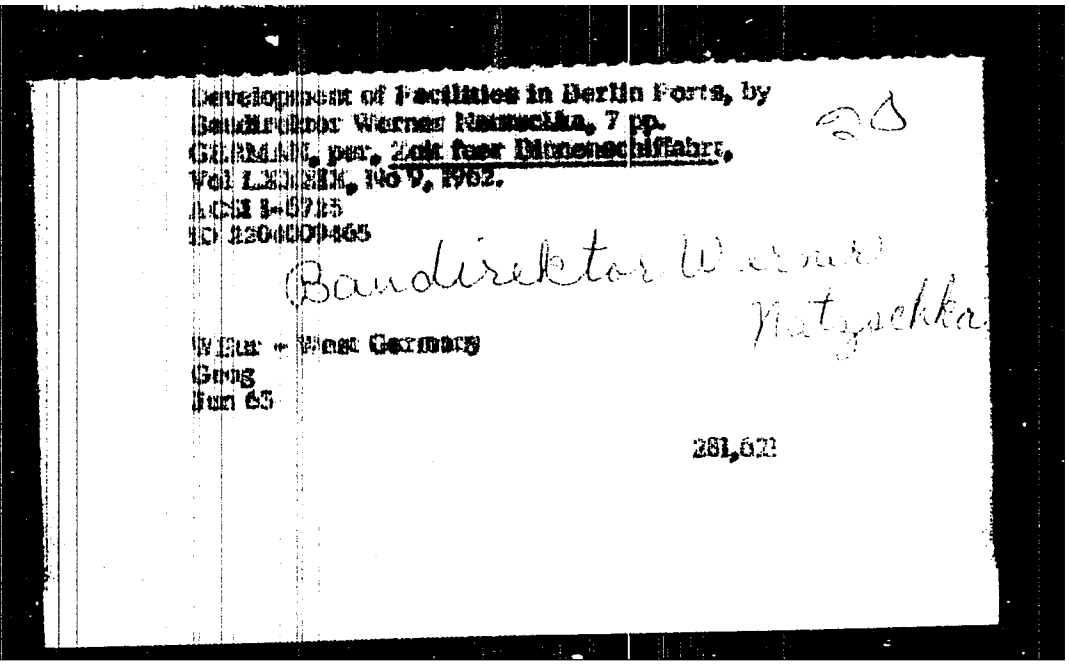

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Baudirektor Werner Matzschke, 7 pp.
GERMANY, per. Zeit fuer Binnenschiffahrt,
Vol 1-33, 1979, 1982.
ACSI 1-0715
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Bacterial Fertilizers, Their Effectiveness and Mode of Action by E. N. Mishustin and A. N. Naumova, 11 pp.

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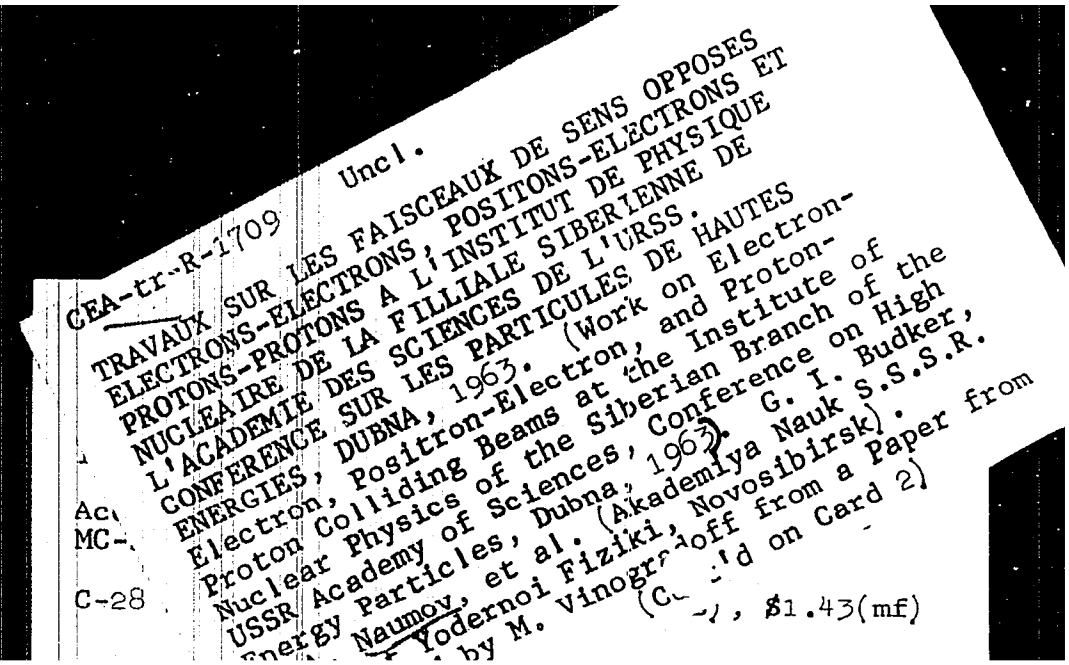

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G. I. Budker,

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Preparative Method for the Synthesis of Nitriles from 2-Methylisotonitriles., by I. N. Nazarov, A. V. Semenovsky, A. V. Kamernitsky, 1959.

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1. Seal From Laysan, by Matschie.
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Elastic Field of Continuously Distributed
Moving Dislocation Loops,
by A. M. Kosevich, V. D. Natsik, 6 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol VI, No 1,
1964, pp 228-235.

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Experimental Studies of Figure-Ground Reversal.,
by Tadasu Oyama, Shuko Torii, Katsuri Hamamoto,
34 pp. UNCL

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CHINESE, per, Hsien-tai Fo-hsueh, No 11, Peiping, 1958, p 30.

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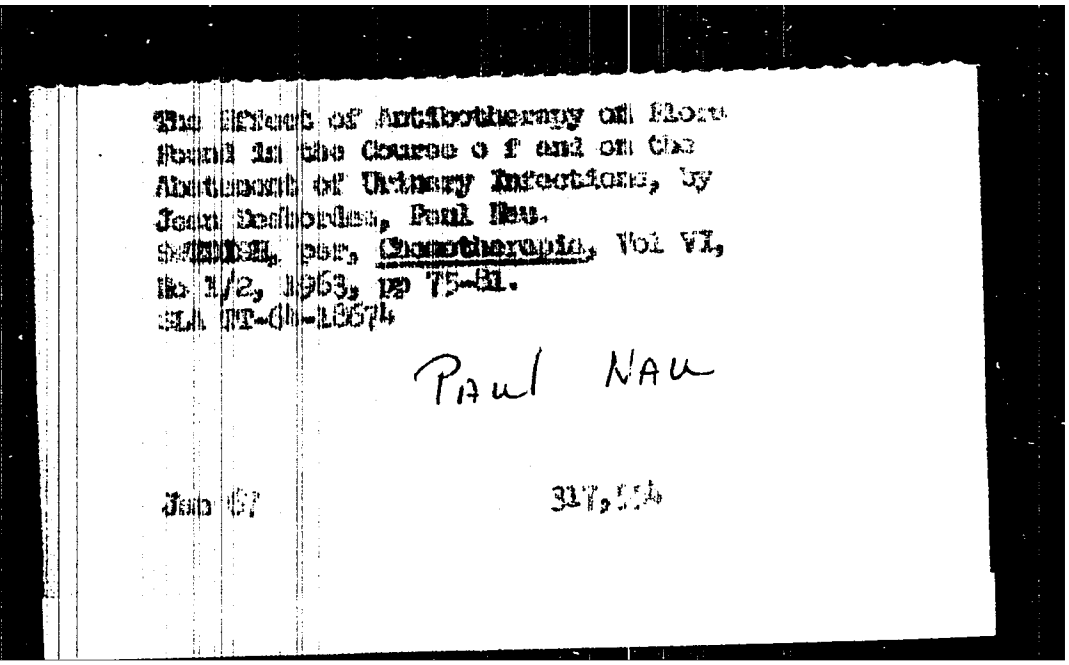

The Effect of Antibiotherapy on Flora
Found in the Course o f and on the
Abatement of Urinary Infections, by
Jean Delbarre, Paul Nau.
SOURCE, per, Chemotherapia, Vol VI,
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Paul Nau

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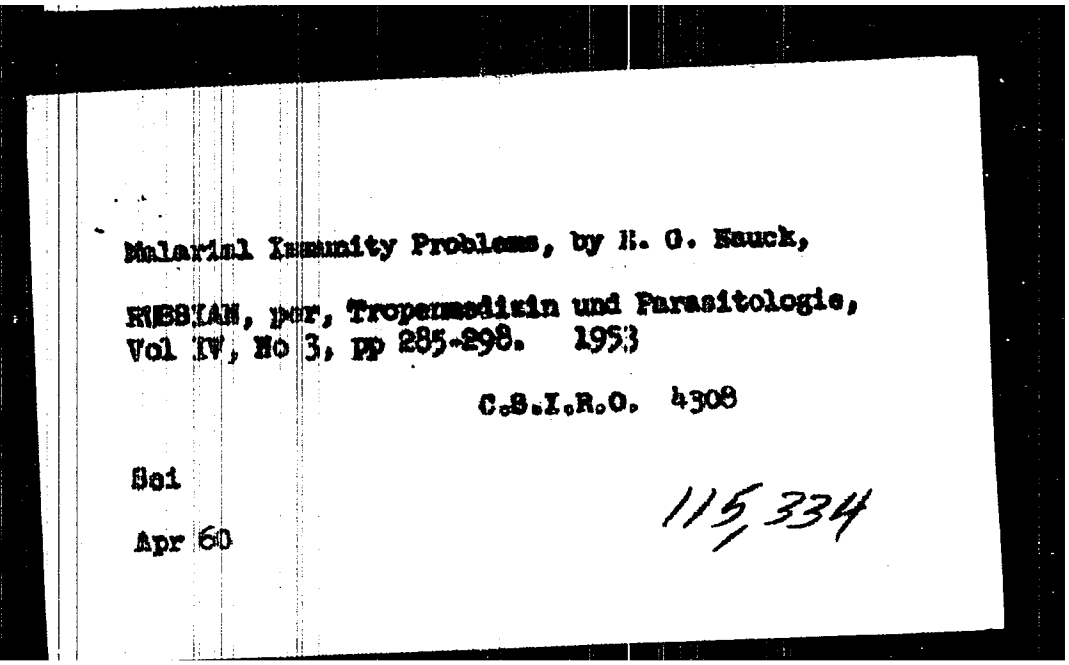

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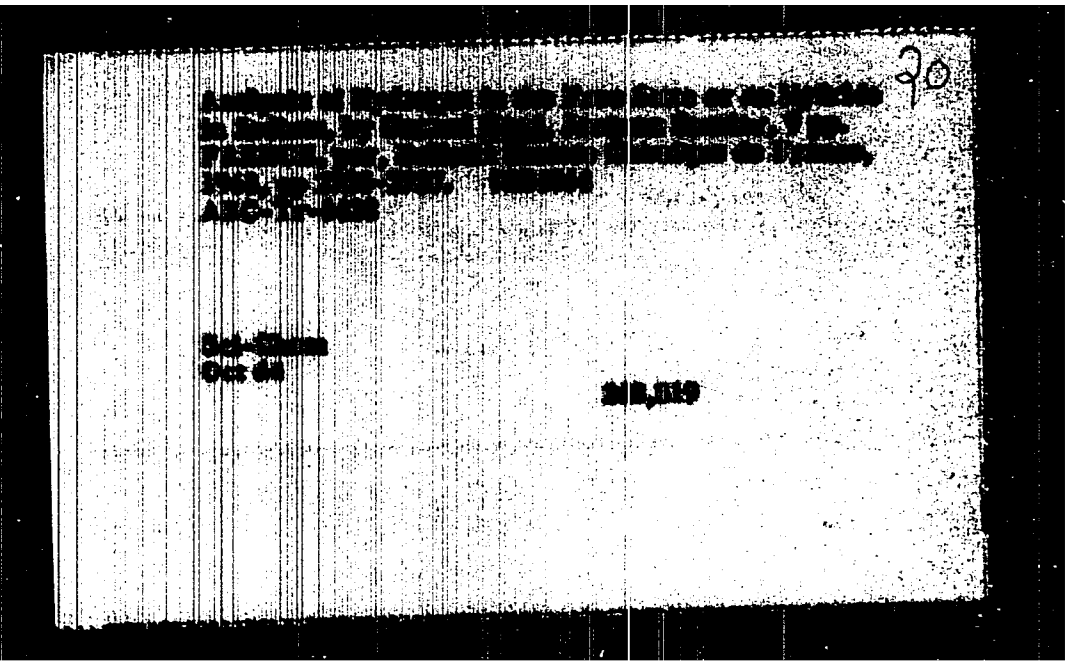

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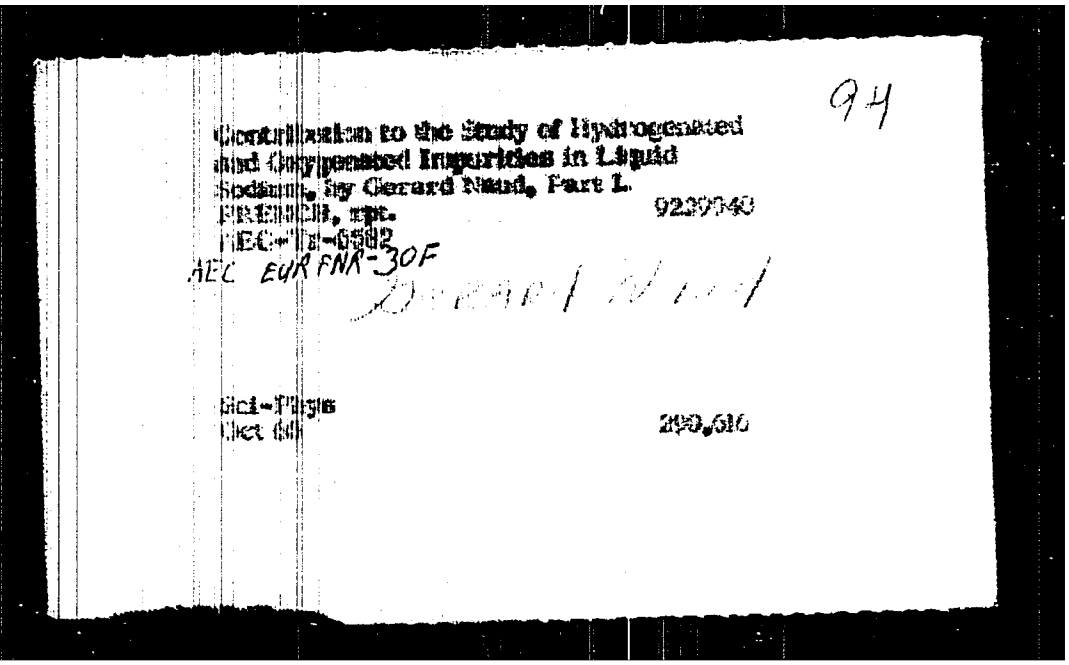

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Clarification to the Study of Hydrogenated and Oxygenated Impurities in Liquid Sodium, by Gerard Naud, Part I.

923940

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Nicl-Plate

Elect Gd

290,610

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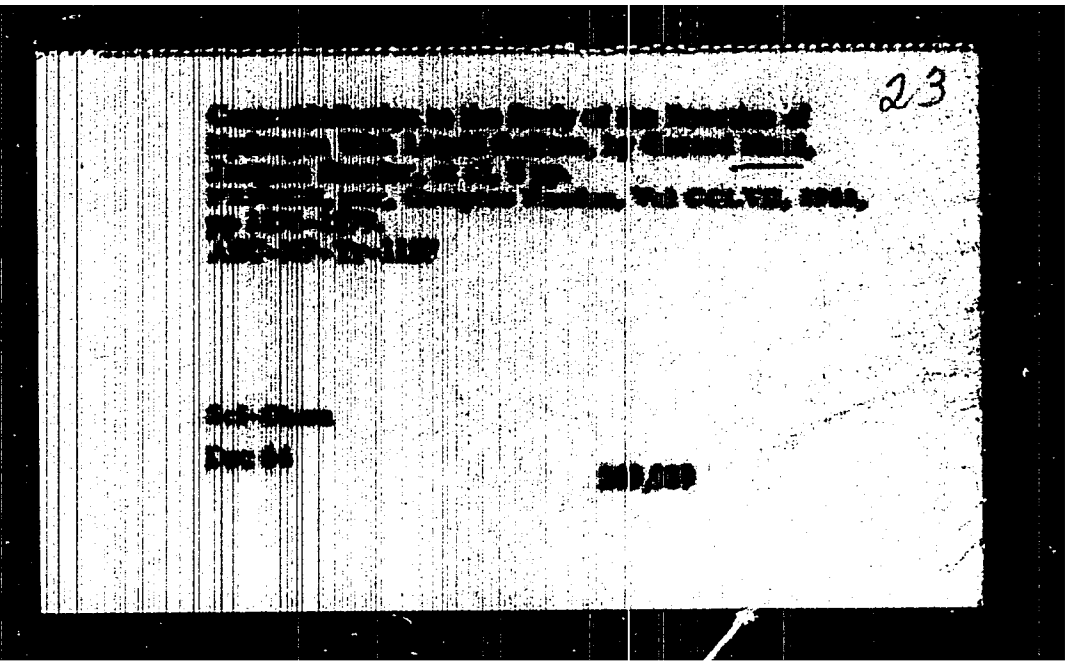

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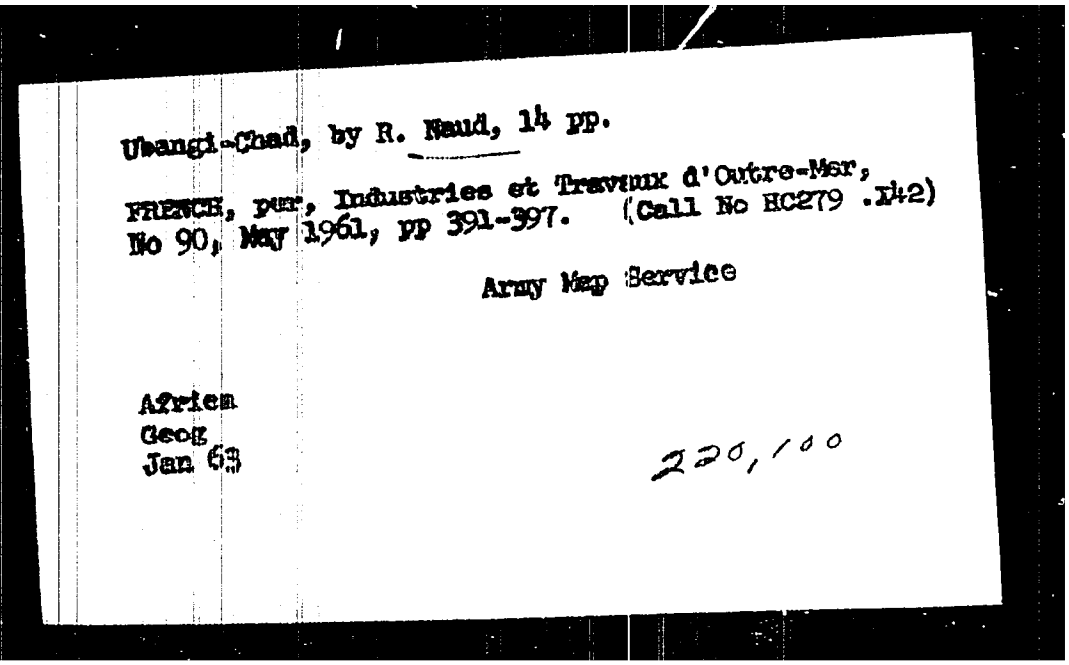

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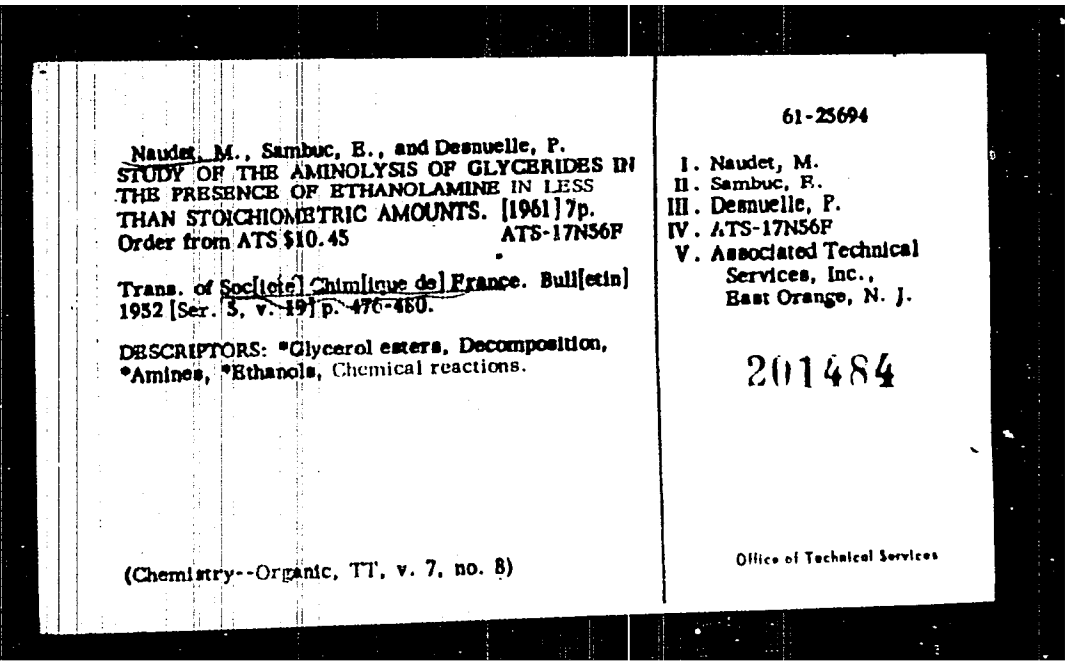

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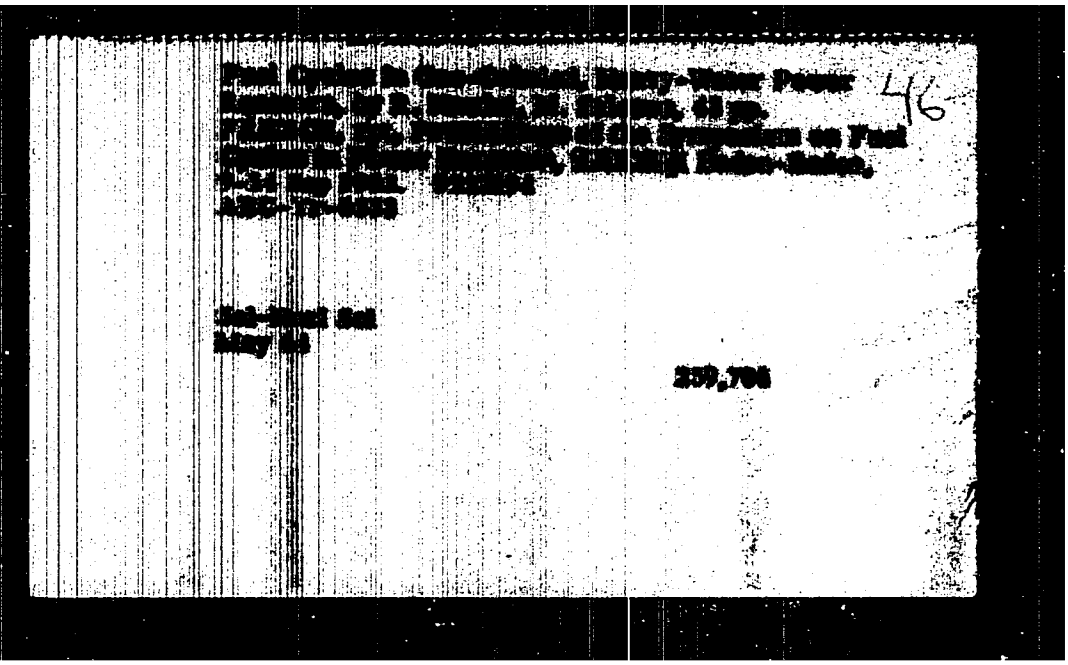

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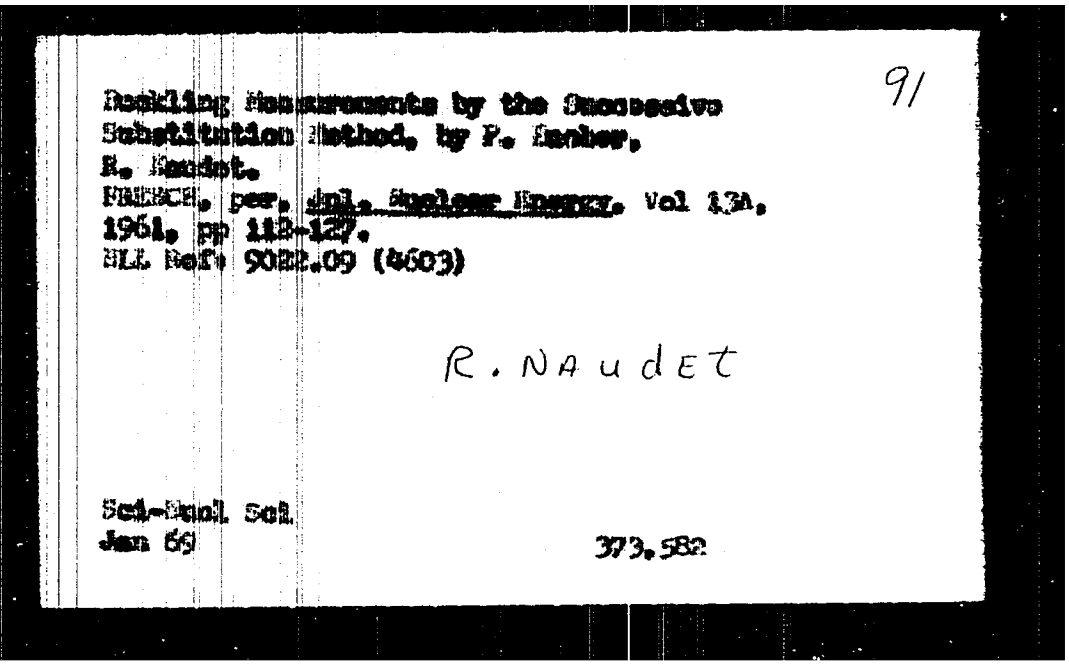

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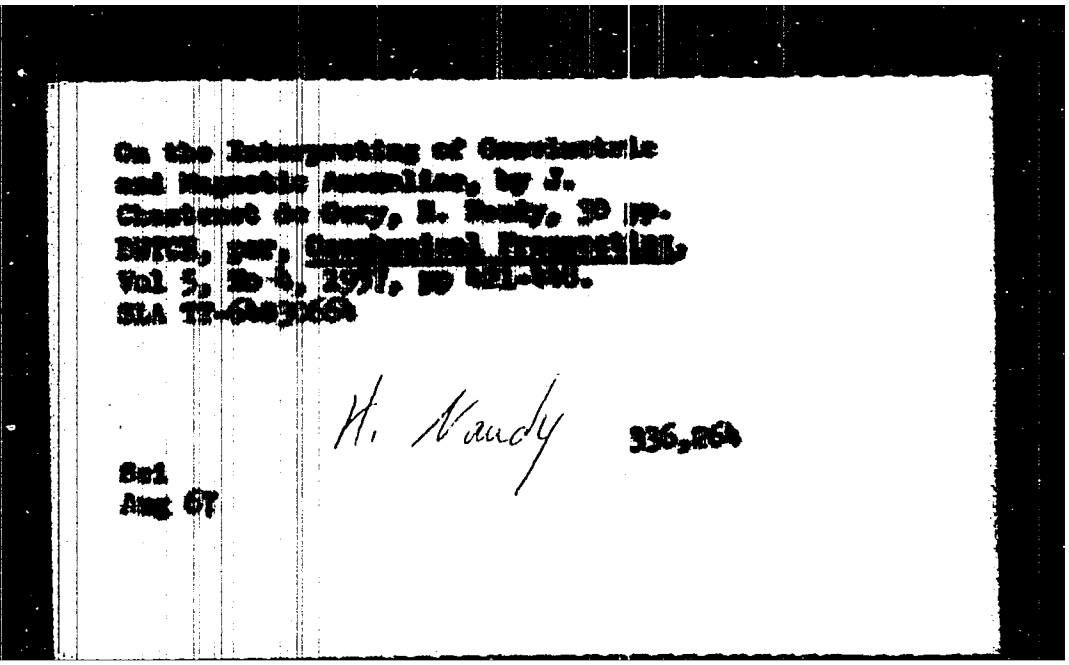

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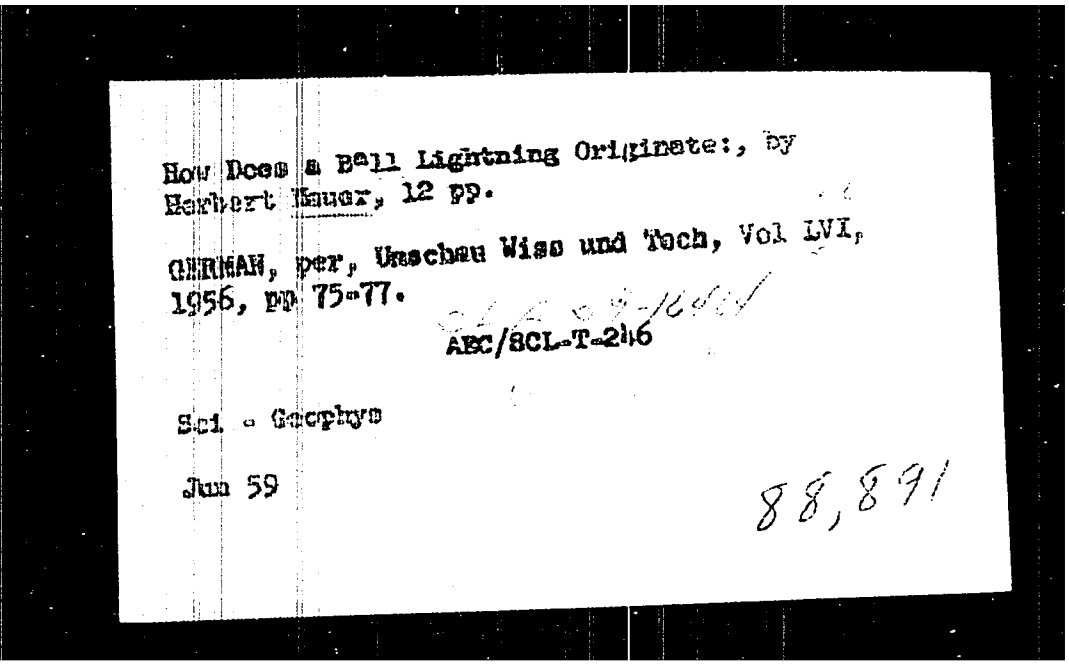

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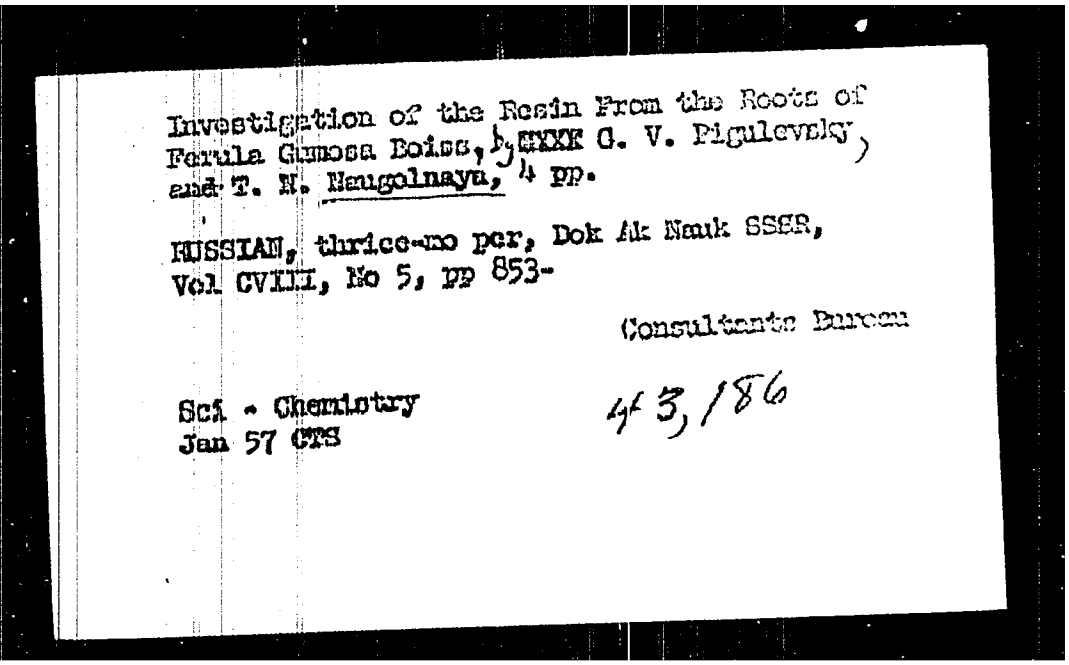

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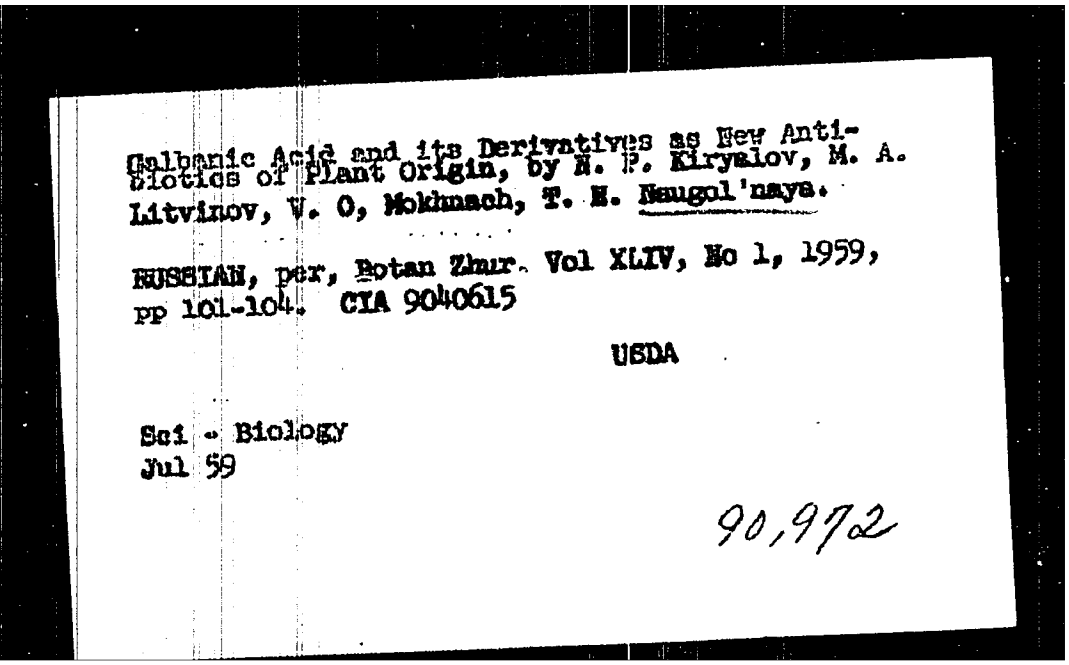

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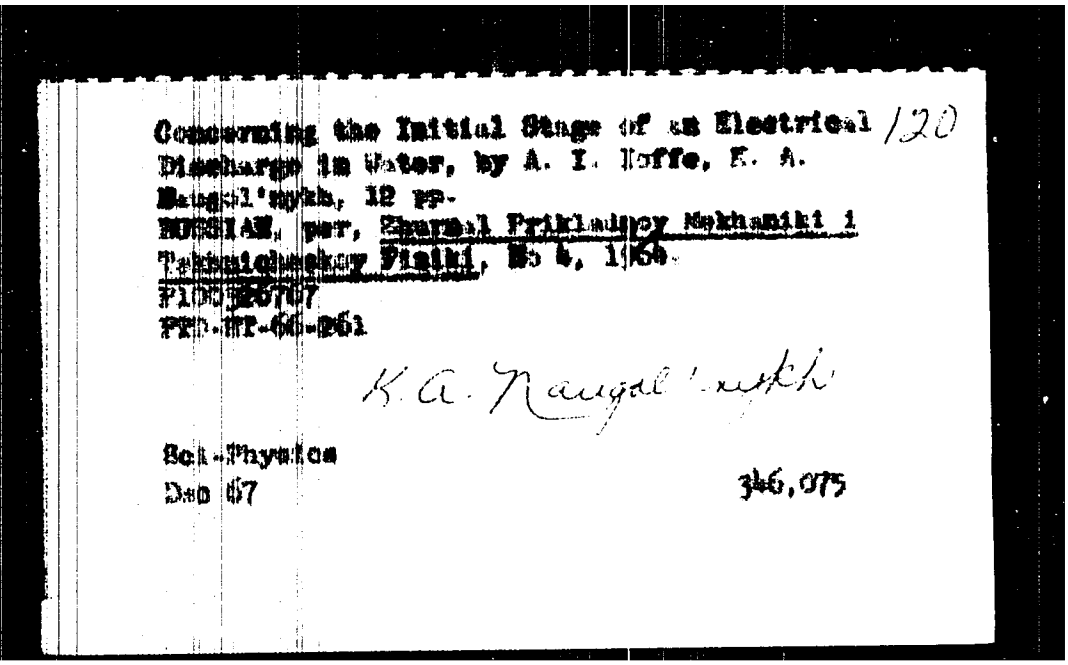

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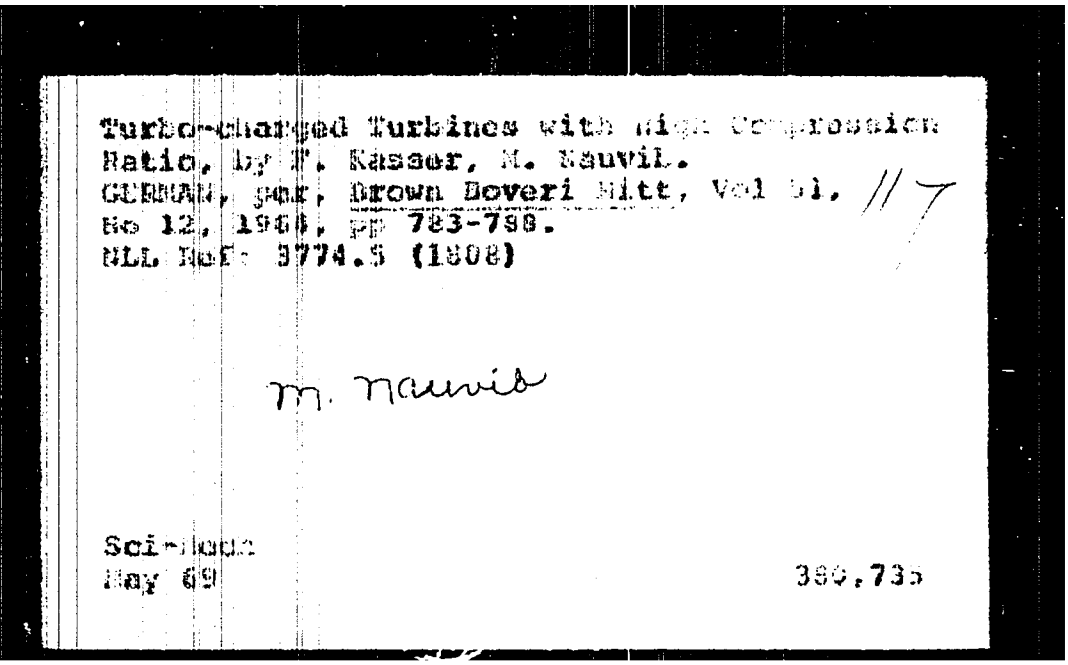

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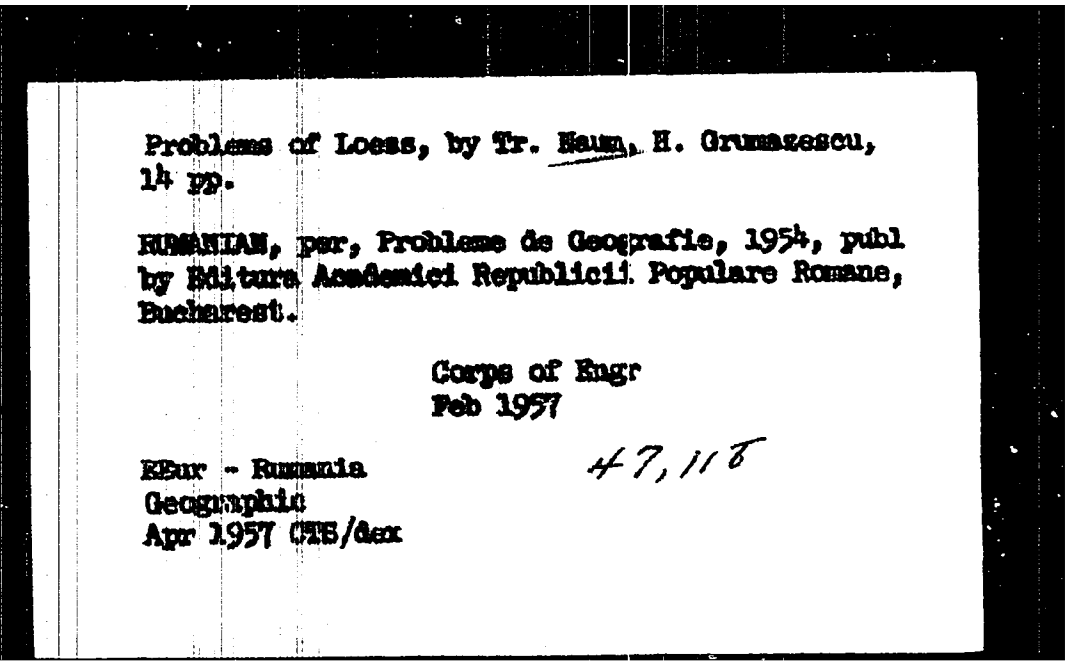

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